Commercial Salt-Water Chlorination Systems

Original SALTMASTER Automatic - Deluxe

made in australia since 1980

The Saltmaster Commercial Salt-water chlorination system is the first unit to utilize injection moulded cell-housings. This guarantees that our systems are the most compact and cost-effective units for both assembly and maintenance.

Saltmaster systems use only the highest quality cell-materials.

Both the power supply and cell units of the commercial systems are modular in design. This allows for extremely quick and efficient part maintenance and replacement.

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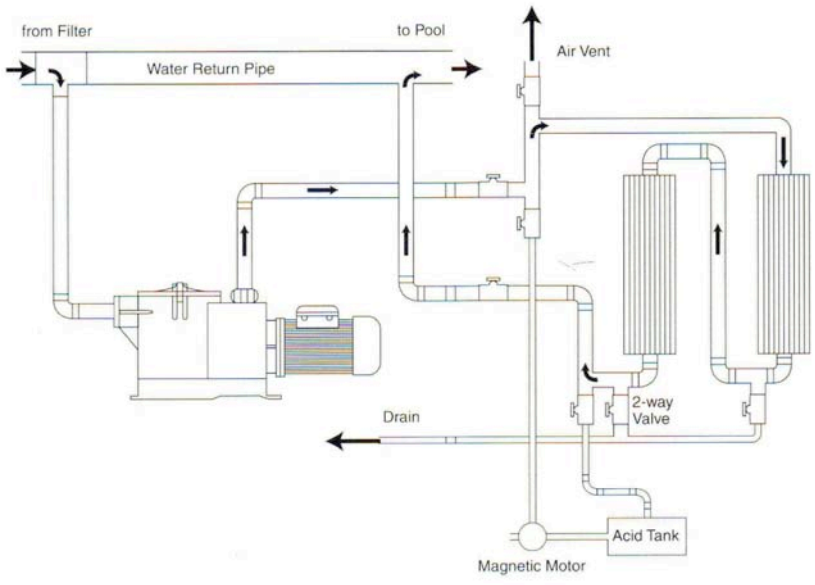
	UNITS/FEATURES		
MODEL:	SM2400		
TYPE:	Commercial Salt-water Chlorination System.		
COMPOSITION OF SYSTEM:	• Wall mounted power supply -1 • Cells -8 • Wall mounted or Free-standing frame for cell units including piping, fittings and valves • Stand-alone Acid Wash Unit. This entails acid tank & pump.		
SYSTEM PRODUCTION AND CONSUMPTION		SEA WATER SALT LEVEL (35,000ppm)	
	CHLORINE PRODUCTION	2,400 grams/hour	
	POWER CONSUMPTION	8,160 W	
	Above data approximation based on typical water conditions, 25^{O}C temperature and Low chlorine concentrations. Actual values may vary because of local climatic and operating conditions.		
RECOMMENDED WATER CONDITIONING:	These systems utilize salt in the water to perform the sanitizing process but do not consume salt. Salt concentration can vary between 32,000 ppm and 35,000 ppm. Optimum conditions for user and operation require the following pool characteristics: Alkalinity: 90 – 120 ppm; pH 7.2 – 7.6; Chlorine Stabilizer (Isocyanuric Acid) 50 – 80 ppm.		
TYPICAL WATER TREATMENT CAPACITY:	~5,800,000 liters. This is based on chlorine requirements, water and climatic conditions. It also assumes 24-hour operation.		
POWER SUPPLY SPECIFICATION:	Supply Specification:	Primary Input (per cell): Voltage: 100 – 240 V AC Current: 5 A Secondary Output (per cell): Voltage: 17 V DC Current: 60A (100 A Max) Total Power: ~8,160 W Power supply can be either single phase or 3-phase to suit installation and specific system being installed.	
	Dimensions:	Power Supply: 2000mm x 600mm x 300mm Cells & Frame 1200mm x 1400mm x 600mm Acid Wash Unit 1000mm x 600mm x 500mm Unit dimensions are subject to change without notice, according to design requirements, or due to plant room restrictions for custom orders.	
	Display and Controls:	• Switches: Mains power On, Cell On, Acid Pump (for starting acid wash operation). • Displays: Current Output for each cell. • Lamp indicators: Main Power, No Flow, Cell operation.	
	Optional:	• Flow Sensor (Recommended) • Timer Controller(Not normally used) • ORP Controller: This include display, ON/OFF switch & controller override.	

CELL SPECIFICATION:	Cell Material:	Mono-polar EC300 electrode.
	Plumbing:	Cell are integrated into a single wall mounted unit which include: • Flanges for easy connection to filtration system; • Valves for isolating unit from filtration system; • Valves connecting unit to acid wash unit. Generally, cell unit are connected in a bypass configuration in line with a 1.5 – 2 HP pump. All Pipes, fittings & Valves are all industrial grade PVC or CPVC and have been tested to 500kPa. Cells are made from Acrylic for easy inspection.
	Cell Cleaning:	Semi-automatic acid wash system.
	Minimum Water Flow:	Minimum Flow rate - 10 liters/second.
PROTECTION SYSTEMS:	Primary Protection: • Current/Voltage Regulation; • Circuit Breakers; • Phase Failure Circuit (3 phase); • Water flow cut-off detection system. Secondary Protection: • Constant Voltage Control; • Current Limiting; • Gas build-up avoidance via careful placement of unit along water return lines.	
MAINTENANCE:	Periodic cell cleaning should between 5 – 10 weeks, subject to local conditions. Cell material replacement is estimated to be required every 5 years. Refurbishment of cell can be done at a reduced cost.	
WARRANTIES:	Wall mounted power supply - 2 years Cells - 2 years	
APPROVALS:	**RoHS** N4227 CE	



MAINTENANCE MADE EASY

Our commercial systems are the first and only units on the market utilizing injection moulded cell housings. This guarantees that our systems will be the most compact and cost-effective for both assembly and maintenance.

If the cells need to be removed or replaced at any time, it simply requires 4 easy steps as shown below. Our competitors systems require a complete cell re-build.

STEP 1:

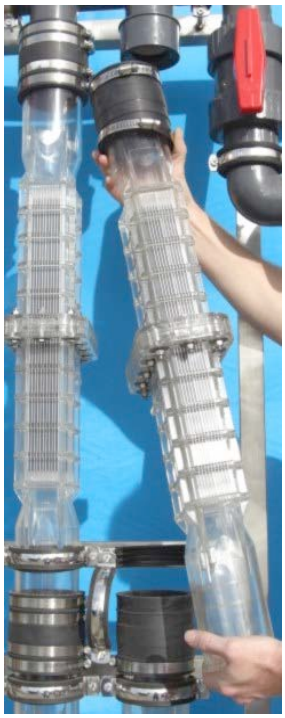
Unscrew hose-clamps

STEP 2:

Slide rubber coupling down.

STEP 3:

Remove cell-clamp.



STEP 4:

Slide cell-housing up and out of rubber coupling